Rubric for Organic Lab Reports - Spring 2019

Name:	Item	Max Score	Your Score
	Introduction	6	
Section:	Physical Data	3	
	Procedure	3	
Date:	Data & Observations	6	
	Discussion of Results	15	
Experiment Title:	Technique	6	
	Format	6	
	RAW TOTAL	45	
	Days late	-	
	Points lost due to lateness (10%/day)	-	
	FINAL GRADE	45	

Typed prelab (containing introduction, physical data, and procedure) is due at start of experiment. Data & observations are handwritten during experiment. Before you leave lab, your TA will initial your prelab and data & observations. The following lab period, turn in your lab report as a single stapled document containing, in this order: 1) Copy of this rubric 2) Initialed prelab 3) Data & observations 4) Typed postlab (containing discussion of results and any relevant spectra)

		Full points		Two-thirds points		One-third points	No points	
Introduction (6 pts)	0	Purpose is stated clearly and correctly in a few sentences	0	Purpose has minor errors, is incomplete or far too wordy	0	Purpose is stated vaguely or incorrectly	0	Purpose is not stated
Introd	0	Structures (and mechanism, for preparative labs) are drawn in ChemDraw (or similar program) with no errors	0	Structures (and mechanism, for preparative labs) are drawn in ChemDraw with minor errors or omissions	0	Structures (and mechanism, for preparative labs) are drawn in ChemDraw with major errors or omissions	0	Structures (and mechanism, for preparative labs) are not shown at all, or are copied from another source, or are handdrawn
	0	Any other info requested by experiment manual is complete and correct	0	Info requested by experiment manual is mostly complete and correct	0	Info requested by experiment manual is incomplete or incorrect	0	Info requested by experiment manual is missing
Data pts)	0	All compounds used in experiment are listed	0	Most compounds are listed	0	Under half of compounds are listed	0	Few or no compounds are listed
Physical Data (3 pts)	0	All relevant physical properties are given for each compound	0	Most physical properties are given for each compound	0	Some physical properties are given for each compound	0	Few or no physical properties are given
ď	0	Amount of each reagent is correctly calculated, if not given in g or mL in manual	0	Amount of each reagent is calculated almost correctly	0	Amount of each reagent is calculated with several mistakes	0	Amount of each reagent is not calculated
	0	Preparative lab only: Theoretical yield is correctly calculated, based on quantities of reagents given in procedure	0	Preparative lab only: Theoretical yield is calculated almost correctly	0	Preparative lab only: Theoretical yield is calculated with several mistakes	0	Preparative lab only: Theoretical yield is not calculated

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Procedure (3 pts)	0	All steps are listed clearly, in correct order	0	Most steps are listed clearly, in correct order	0	Most steps are listed incorrectly, unclearly, or in wrong order	0	No steps are listed
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Data & Observtns (6 pts)	0	Data and observations are present, clearly labeled and organized Data is handwritten clearly on carbon-copy paper during experiment	0 0	Data and observations are mostly present, but disorganized or not labeled Data is handwritten sloppily on carbon- copy paper during experiment	0 0	Data and observations are mostly missing, or so disorganized that they are useless Data is either not written during lab, or very sloppy	0	Data and observations are missing
Discussion of Results (15 pts)	0	Procedure is discussed with full explanation of why each step was performed	0	Procedure is discussed with partial explanation	0	Experimental procedure is discussed with incorrect/no explanation	0	Experimental procedure is not discussed
cussion o	0	Data & observations are interpreted correctly	0	Data & observations are interpreted mostly correctly	0	Data & observations are incompletely or incorrectly interpreted	0	Data & observations are not interpreted
Disc	0	Any required spectra are attached and interpreted correctly	0	Any required spectra are interpreted mostly correctly	0	Any required spectra are interpreted with significant errors	0	Any required spectra are missing or not interpreted
	0	If relevant, percent yield or percent recovery is calculated correctly. Theoretical yield is revised, based on quantities of reagents used	0	If relevant, percent yield or percent recovery is calculated almost correctly. Theoretical yield is not revised	0	If relevant, percent yield or percent recovery is calculated incorrectly. Theoretical yield is not revised	0	If relevant, percent yield or percent recovery is not calculated. Theoretical yield is not revised
	0	Analysis of error and suggestions for improvements are thorough	0	Analysis of error and suggestions for improvements are present but brief	0	Analysis of error and suggestions for improvements are mostly missing or inadequate	0	Analysis of error and suggestions for improvements are not given
	0	Any other info specified by experiment manual is complete and correct	0	Any other info specified by experiment manual is mostly complete and correct	0	Any other info specified by experiment manual is incomplete or incorrect	0	Any other info specified by experiment manual is missing
	0	Writing is clear	0	Writing is fairly clear	0	Writing is fairly confusing	0	Writing is very confusing
	0	Writing is in third-person past tense	0	Writing is mostly in third-person past tense	0	Writing is mostly in wrong tense	0	Writing is in wrong tense
Technique (6 pts)	0	Student was prepared for lab and understood procedure & technique	0	Student was mostly prepared for lab and mostly understood procedure & technique	0	Student was unprepared for lab and understood procedure & technique poorly	0	Student was completely unprepared for lab and had no understanding of experiment
T	0	Student followed correct safety procedures throughout experiment	0	Student violated safety rules once or twice (no goggles, shorts, etc.)	0	Student violated safety rules several times	0	Student committed significant violations of safety rules
Format (6 pts)	0	Report is typed (except for data) and turned in as paper copy, with good spelling, formatting, and grammar	0	Report is typed but has some spelling, formatting or grammatical errors	0	Report is typed but has significant spelling, formatting or grammatical errors	0	Entire lab report is handwritten, or not turned in as hard copy, or has terrible spelling or grammar
	0	All parts of lab report are present in correct order All parts of lab report	0	All parts are present but not in correct order Lab report has most of	0	Rubric sheet is not attached Lab report has little	0	Multiple sections of lab report are missing Lab report has no
		have identifying information	Ĵ	identifying info		identifying info		identifying info